

Title (en)

Method for manufacturing of shell shaped articles or hollow bodies from a thermoplastic material

Title (de)

Verfahren zur Herstellung von schalenförmigen Formteilen oder Hohlkörpern aus thermoplastischem Kunststoff

Title (fr)

Procédé pour fabriquer des objets creux ou en forme de coquille en matière plastique

Publication

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Application

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Priority

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Abstract (en)

A length of extruded tubular preform (2) is produced and divided to form at least a single strip of material (2a,2b). The strip is gripped by segments (6) of a manipulator, removed from the die(1) and spread out transverse to the extrusion direction and/or stretched. In this condition the strip is transferred to a molding tool for production of the desired product. A length of extruded tubular preform (2) is produced and divided to form at least a single strip of material (2a,2b). The strip is gripped by segments (6) of a manipulator, removed from the die (1) and spread out transverse to the extrusion direction and/or stretched. In this condition the strip is transferred to a molding tool for production of the desired product. Tubular preforms are extruded to hang freely downwards. Thin circumferential line are produced at prescribed spacing during the extrusion stage allowing the material strip to be torn away from the die by the manipulator. The preform is axially divided at one or more points around the circumference either inside the die or outside by a cutter below the die. When preform division occurs inside the die thin strips of a thermoplastic dividing material are used, which do not melt, weld or bond to the preform material and hence ensure cut lines do not rejoin. The wall thickness of the preform may vary over the length and/or circumference.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Herstellung von schalenförmigen Formteilen oder Hohlkörpern aus thermoplastischem Kunststoff, umfassend die Herstellung eines mindestens annähernd schlauchförmigen Vorformlings durch Extrusion von thermoplastischem Material, die axiale Aufteilung (5) des Vorformlings zu wenigstens einer einlagigen Materialbahn, wobei die Materialbahn in einem Formwerkzeug in der ersten Hitze die Endform erhält. Das Verfahren zeichnet sich dadurch aus, dass die Materialbahn mittels eines Manipulators (6) ergriffen und von dem Extrusionskopf abgenommen wird, dass die Materialbahn mittels des Manipulators quer zur Extrusionsrichtung ausgebreitet und/oder gestreckt wird und dass die Materialbahn von dem Manipulator dem Formwerkzeug aufgegeben wird. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

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